



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ROLAND TD-10. You'll find the answers to all your questions on the ROLAND TD-10 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ROLAND TD-10
User guide ROLAND TD-10
Operating instructions ROLAND TD-10
Instructions for use ROLAND TD-10
Instruction manual ROLAND TD-10

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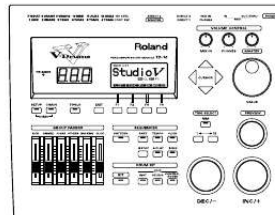


PERCUSSION SOUND MODULE **TD-10**

OWNER'S MANUAL

We'd like to take a moment to thank you for purchasing the Roland Percussion Sound Module TD-10.

Before using this unit, carefully read the sections entitled: "IMPORTANT SAFETY INSTRUCTIONS" (p. 2), "USING THE UNIT SAFELY" (p. 3, 4), and "IMPORTANT NOTES" (p. 17). These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have gained a good grasp of every feature provided by your new unit, this manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.



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Manual abstract:

3, 4), and "IMPORTANT NOTES" (p. 17). @@@@The manual should be saved and kept on hand as a convenient reference. Copyright © 1997 ROLAND CORPORATION All rights reserved. No part of this publication may be reproduced in any form without the written permission of ROLAND CORPORATION.

CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN ATTENTION: RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS. IMPORTANT SAFETY INSTRUCTIONS SAVE THESE INSTRUCTIONS WARNING - When using electric products, basic precautions should always be followed, including the following: 1. Read all the instructions before using the product. 2. @3.

@4. @@@@If you experience any hearing loss or ringing in the ears, you should consult an audiologist. 5. The product should be located so that its location or position does not interfere with its proper ventilation. 6.

The product should be located away from heat sources such as radiators, heat registers, or other products that produce heat. 7. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product. 8. The power-supply cord of the product should be unplugged from the outlet when left unused for a long period of time. 9. Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings. 10. The product should be serviced by qualified service personnel when: A. The power-supply cord or the plug has been damaged; or B.

Objects have fallen, or liquid has been spilled into the product; or C. The product has been exposed to rain; or D. The product does not appear to operate normally or exhibits a marked change in performance; or E. The product has been dropped, or the enclosure damaged. 11. Do not attempt to service the product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel. For the USA This product must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a cord having an equipment-grounding conductor and a grounding plug.

The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances. **DANGER:** Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided with the product -- if it will not fit the outlet, have a proper outlet installed by a qualified electrician. For the U.

K. WARNING: THIS APPARATUS MUST BE EARTHED IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE. GREEN-AND-YELLOW: EARTH, BLUE: NEUTRAL, BROWN: LIVE As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured **GREEN-AND-YELLOW** must be connected to the terminal in the plug which is marked by the letter **E** or by the safety earth symbol or coloured **GREEN** or **GREEN-AND-YELLOW**. The wire which is coloured **BLUE** must be connected to the terminal which is marked with the letter **N** or coloured **BLACK**. The wire which is coloured **BROWN** must be connected to the terminal which is marked with the letter **L** or coloured **RED**.

GROUNDING INSTRUCTIONS The product which is equipped with a **THREE WIRE GROUNDING TYPE LINE PLUG** must be grounded. 2 **USING THE UNIT SAFELY** Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly. Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly. * Material damage refers other adverse effects respect to the home furnishings, as well animals or pets. to damage or caused with and all its to domestic The symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger. The symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled.

The symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the powercord plug must be unplugged from the outlet. · Before using this unit, make sure to read the instructions below, and the Owner's Manual.

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· Do not open or perform any internal modifications on the unit. (The only exception would be where this manual provides specific instructions which should be followed in order to put in place userinstallable options; see p. 43.)

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· When using the unit with a rack or stand recommended by Roland, the rack or stand must be carefully placed so it is level and sure to remain stable. If not using a rack or stand, you still need to make sure that any location you choose for placing the unit provides a level surface that will properly support the unit, and keep it from wobbling. ..

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· Use only the attached power-supply cord.

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... · Avoid damaging the power cord. Do not bend it excessively, step on it, place heavy objects on it, etc. A damaged cord can easily become a shock or fire hazard. Never use a power cord after it has been damaged.

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..... · *In households with small children, an adult should provide supervision until the child is capable of following all the rules essential for the safe operation of the unit.*

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..... · *Protect the unit from strong impact. (Do not drop it!) ..*

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· *Do not force the unit's power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords--the total power used by all devices you have connected to the extension cord's outlet must never exceed the power rating (watts/amperes) for the extension cord.*



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Excessive loads can cause the insulation on the cord to heat up and eventually melt through. ..

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..... · Before using the unit in a foreign country, consult with your dealer, or qualified Roland service personnel.

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... · Always turn the unit off and unplug the power cord before attempting installation of the circuit board (WAVE & SYSTEM EXPANSION BOARD TDW series; p. 43).

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.. · Do not put anything that contains water (e.g., flower vases) on this unit.

Also, avoid the use of insecticides, perfumes, alcohol, nail polish, spray cans, etc., near the unit. Swifly wipe away any liquid that spills on the unit using a dry, soft cloth. ..

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..... 3 USING THE UNIT SAFELY · Always grasp only the plug on the power-supply cord when plugging into, or unplugging from, an outlet or this unit.

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... · Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children.

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.. · Never climb on top of, nor place heavy objects on the unit. ..

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· Never handle the power cord or its plugs with wet hands when plugging into, or unplugging from, an outlet or this unit.

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... · Before moving the unit, disconnect the power plug from the outlet, and pull out all cords from external devices. .

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..... · Before cleaning the unit, turn off the power and unplug the power cord from the outlet (p. 27). ..

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..... · Whenever you suspect the possibility of lightning in your area, pull the plug on the power cord out of the outlet.

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... · Install only the specified circuit board(s) (WAVE & SYSTEM EXPANSION BOARD TDW series). Remove only the specified screws (p. 43).

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... 4 How to read this owner's manual This owner's manual is organized as follows. Quick Start This section is intended for those using the TD-10 for the first time, and explains how to use various functions in a simple way. Please read Quick Start and follow along by actually operating the TD10. This will help you understand most of what you need to know for basic operations. If you find unfamiliar words or terms, refer to the "Glossary" on p. 169. More advanced ways of using the TD10, or details of other operations are explained the Reference section.

Advanced Use This section explains all functions of the TD-10 in detail and is divided into specific parts. Basic panel operations and displays are covered in the Quick Start. The Advanced Use section assumes you already understand basic procedures, so if anything's unclear, refer to the "Quick Start." Chapter 1.

Overview of the TD-10 V-drums This chapter explains the concept of the TD-10 and how it is organized.

Read this chapter in order to understand what the TD-10 is. Chapters 25. Functions for crea...

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.....35 Choking

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.....35 Positional sensing .

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.....36 *Playing with brushes...*

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.....68 *Play the pads along with a preset pattern.....*

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..69 *Drum Kit Chain--Selecting drum kits in the desired order*

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70 *Using a foot switch to select kits*

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...90 Adjusting pan (stereo location)..

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.....90 Adjusting effect send level ..

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.....98 *Click settings*

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..99 *Click on/off and volume settings*

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..99 *Setting the tempo* ...

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99 *Setting the time signature and click interval*

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..99 Selecting the click sound...

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.....100 Using ambience

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100 Using effects

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.....100 Adjusting the pan (stereo location) .

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.....100 Selecting the output destination

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.100 Recording

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...102 Using a count-in

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.102 Start recording the moment that you strike a pad ...

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103 Erasing a pattern

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..104 Erasing selected measures of a pattern...

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..104 Copying a pattern ...

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..104 Copying selected measures of a pattern.....

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105 Clearing a pattern

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.....105 Clearing selected measures of a pattern.....

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..116 Naming a Drum Kit Chain

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117 The UNDO function

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117 Getting help

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.....176 * PinStripe is a registered trademark of Remo Inc. U.S.A. 11 Features q Enhanced tonal quality and expressiveness that rivals acoustic drums The TD-10 features a newly developed modeling sound module that relies on COSM technology.

The force and position of the hit are detected, providing sensitive and dynamic expression that is extremely close to that of acoustic drums. In addition, when PD-100 or PD-120 (optional) pads are used, you can enjoy excellent response when playing rolls. * COSM (Composite Object Sound Modeling) is a Roland technology which combines multiple sound modeling processes to create new sounds. * Positional detection is possible on snare drums and ride cymbals. q

With 600 drum sounds and 54 backing instrument provided A rich array of instrumental sounds are provided, sufficient to cover all styles of music.

q A user interface comfortable for drummers You can create sounds much in the same way that you would using acoustic drums when you select a preferred drum head, tune it, and attach muffling (muting) material. With the large display, the use of graphics and icons to portray parameters being set and their meanings, operation is intuitive and easily understood. q High-speed trigger response The triggering time (time delay from hitting the pad until you hear the sound) is faster than ever, allowing expressiveness and dynamics to be reproduced accurately. q Twelve pads can be used simultaneously Since up to twelve pads can be used simultaneously, you can create large-scale setups bigger than ever before. This also gives you flexibility for extended applications, such as using pads as switches (Pad Switch) or for pattern playback (Pad Pattern).

q Simulate the entire process of actual recording By being able to choose drum materials, sizes, studio location, mike types and their settings, effects and mixer parameters, the TD-10 allows total flexibility for recording or live applications. All of these settings can be stored as part of a drum kit, for instant recall at any time. q Perform using brushes If you use the PD-100 or PD-120 pads, you can play with brushes, something not possible with any previous electronic drum system. (Nylon brush only please!). q Sound processing specially selected for drums For each instrument assigned to trigger inputs 110, individual two-band equalizers and compressors are provided. In addition, (in the control room) --there are digital effects: reverbs, flanger, chorus, delays, pitch shift delay, and phaser. A three-band equalizer is also provided for processing the sound at the MASTER OUT. Ambience (in the Studio) lets you choose WHERE the drums are being played. You can change the sound of that space by changing the material of the walls, size of the room and the position of the ambient mikes. There are individual ambience send levels for all instruments.

12 Features q Functions and operations perfect for live performances The group faders on the front panel let you make quick changes as needed during performance. You can play drum kits in any desired order (Drum Kit Chain). The INC/DEC buttons are large enough to be pressed with a drum stick. (Don't HIT them!) Another very useful function allows you to send the click sound ONLY to the headphones if desired. An audio input (stereo) for custom monitoring (MIX IN jack) is also provided. q Easy-operation sequencer is built-in With easy, tape recorder-like operations, you can record or play back patterns. In

addition to the drums, three backing parts can be added for ensemble practice or for creating backing patterns via MIDI keyboard, external sequencer etc. * Brush swish/sweeping and choke cannot be recorded. q Previous models of pads can be used Previous pad models (PD-5, PD-7, PD-9), kick trigger units

(KD-5, KD-7) and the hi-hat control pedal (FD-7) are all compatible. Also, the PD-7 and PD-9 allow positional sensing for the snare drum and ride cymbal.

q User Installable Expansion boards allow extended functionality WAVE & SYSTEM EXPANSION BOARD TDW series will bring more instruments and drum kits to the TD-10, and allows the system to be upgraded through Flash ROM. A memory card (M-512E) can be used to store all kits and patterns for the TD-10. q Usable as a MIDI sound module Percussion groups are provided so these sounds can be accessed via MIDI as with a dedicated module, so in

addition to sounds assigned to the 12 trigger inputs, a special note map for percussion allows 72 types of instruments to be accessed simultaneously. 13 Front and rear panel Front Panel 15 2 1 8 7 6 5 4 20 3 18 16 17 19 21 10 9 11 12 13 14 22 1 Trigger Indicator This will light when a trigger signal (signal produced when pad is struck) is received from a pad. It allows you to check whether the pad has been connected correctly. 5 EXIT Button Press this button and you will return to the screen one level higher in the hierarchy. Repeated pressing takes you back to the "DRUM KIT" page. 2 LED Display Displays the number of the currently selected drum kit. 6 TOOLS Button Provides access to functions such as Copy, Undo, and Help.



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(p.

42, 117) 3 **Graphic Display** During performance, this indicates the drum kit name and other important information. During editing, various graphics and text relative to the editing process is indicated. * In this owner's manual, this will be referred to simply as "the display." 7 **CHAIN Button** Lets you make Drum Kit Chain settings (a function that arranges drum kits in a desired order for successive selection) (p. 70, 116). 8 **SETUP Button** 4 **F1-F4 Buttons** These buttons change their function depending on the contents of the display. The lower part of the display will indicate the function of each button (p. 18). Here you can make settings that affect the entire TD-10, such as trigger parameters and MIDI settings (p. 108).

14 **Front and rear panel 9 GROUP FADERS** These allow you to adjust the volume of the kick, snare, hihat, other percussion instruments, backing instruments, and the click sound (p. 37). 20 **TRIG SELECT** Use the lower two buttons to select the pad (trigger number) for which you wish to make settings. To select the rim of a pad, press the **RIM button**, then the **RIM indicator** is lit. If pads are connected to the TD-10, you can also select a pad by striking it. The **PREVIEW button** lets you audition the instrument that is assigned to the selected pad or the sound appearing in the display when editing a percussion group (p. 20). 10 **SEQUENCER** Here are the buttons that control sequencer functions (playback/recording of performance patterns) (p. 68, 97). 11 **KIT Button** Provides access to the basic display page used when playing the TD-10.

21 **PREVIEW Button** Used to audition an instrument. By using **TRIG SELECT** buttons to select a pad, you can play and edit sound even if no pads are connected to the TD-10. The button is velocity sensitive (p. 20). 12 **INST (Instrument) Button** Provides access to the display page in which you can edit instruments (p.

55, 80). 22 **INC Button, DEC Button** These buttons are used to switch drum kits or to modify values. Pressing the **INC button** increases the value, and pressing the **DEC button** decreases it. Since these buttons are large, you can also use the tip of your drum stick to press them (p. 19).

* Please be aware that hitting the buttons with a stick can cause malfunctions. 13 **STUDIO Button** Provides access to the display page where you can choose mike types, their positions, ambience types and ambient mike positions (p. 62, 87). 14 **CONTROL ROOM Button** Allows you to edit mixer, EQ, compressor and effect parameters (p. 65, 90). 15 **MIX IN Knob** This adjusts the volume of the device connected to the **MIX IN** jack. The sound from the **MIX IN** will be output from the **MASTER out** and/or the **PHONES** jack. 16 **PHONES Knob** Adjusts the headphone volume. Even when headphones are connected, sound will still be output from the various output jacks. 17 **MASTER Knob** Adjusts the volume of the **MASTER OUT** jacks.

The volume of the **PHONES** jack is adjusted by the **PHONES** knob. 18 **CURSOR Buttons** Used to move the cursor in the display, or to access the next display page (p. 18). 19 **VALUE Dial** This dial has the same function as the **INC** and **DEC** buttons. Use this dial when you wish to make large changes in drum kit settings or edited values (p. 19). 15 **Front and rear panel Rear Panel 23 33 32 31 28 27 29 30 25 26 24 34 23 MEMORY CARD Slot** An M-512E memory card (optional) can be inserted into this slot. Each memory card can store all settings of the TD-10, such as drum kits and sequencer performance data, etc (p. 114). * The M-512E is the only memory card that can be used by the TD-10.

29 **PHONES Jack** A pair of stereo headphones can be connected to this jack. Even if headphones are connected, sound will still be output from the **OUTPUT** jacks (p. 23). 30 **MIX IN Jack** This jack is used to connect a CD or cassette player, or as a custom monitoring input for live/recording performances. The sound that is input to this jack will be output from the **MASTER out** jacks and/or the **PHONES** jack (p.

108). 24 **TRIGGER INPUT Jacks** Accept the pads or kick trigger units you want to connect to the TD-10. To connect a dual trigger type pad (PD-7, PD-9, PD-120), use a stereo cable (p. 24). 31 **MIDI IN Connector** Use this connector when you wish to use an external MIDI sequencer to play the sounds of the TD-10, or when loading TD-10 settings (bulk data) that were saved on an external device (p.

121). 25 **FOOT SWITCH Jack** Accepts connection of an optional foot switch (FS-5U). A foot switch can be used to select kits and start/stop the sequencer, etc. Use a special PCS-31 cable (optional) (p. 72, 120). 32 **MIDI OUT/THRU Connector** Use this connector when you wish to use play sounds in an external MIDI sound module/sampler from the pads, or when you wish to transmit TD-10 settings (bulk data) to another MIDI device (p. 121). 26 **HH CTRL Jack** Accepts connection of a hi-hat control pedal (FD-7) (p. 36). 27 **OUTPUT (MASTER) Jacks** These jacks output the instrumental sounds of the TD-10, and are for connection to external audio devices or amps.

If you are listening in mono, connect to only the **MASTER L (MONO)** jack (p. 23). 33 **POWER Switch** This switch turns the power on/off (p. 26). 34 **AC Inlet** Connect the included AC power cable to this inlet (p. 23). 28 **OUTPUT (DIRECT 1, 2, 3) Jacks** The direct outs allow you to have more "separation," over the total kit, and can be used for external effects etc. Ambience may also be sent from these outputs, but NOT the digital effects. Output assignments **DIRECT 1, 2** or **3** jacks are found in the Control Room (p. 91).

16 **Important notes Power Supply** In addition to the items listed under "IMPORTANT SAFETY INSTRUCTIONS" and "USING THE UNIT SAFELY" on pages 24, please read and observe the following: q Do not use this unit on the same power circuit with any device that will generate line noise (such as an electric motor or variable lighting system). q Before connecting this unit to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices. q q q Placement q Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference.

q This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers. q Do not expose the unit to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Excessive heat can deform or discolor the unit. q Maintenance q For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water.

To remove stubborn dirt, use a cloth impregnated with a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.



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q Never use benzene, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation. q Repairs and Data q Please be aware that all data contained in the unit's memory may be lost when the unit is sent for repairs. Important data should always be backed up on a RAM card/DATA card, in another MIDI device (e.g., a sequencer), or written down on paper (when possible). During repairs, due care is taken to avoid the loss of data. However, in certain cases (such as when circuitry related to memory itself is out of order), we regret that it may not be possible to restore the data, and Roland assumes no liability concerning such loss of data. buttons, sliders, or other controls; and when using its jacks and connectors.

Rough handling can lead to malfunctions. Never strike or apply strong pressure to the display. When connecting / disconnecting all cables, grasp the connector itself--never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements. A small amount of heat will radiate from the unit during normal operation. To avoid disturbing your neighbors, try to keep the unit's volume at reasonable levels. You may prefer to use headphones, so you do not need to be concerned about those around you (especially when it is late at night). Since sound vibrations can be transmitted through floors and walls to a greater degree than expected, take care not to allow such sound to become a nuisance to neighbors, especially at night and when using headphones. Although the drum pads and pedals are designed so there is a minimal amount of extraneous sound produced when they're struck, rubber heads tend to produce louder sounds compared to mesh heads. You can effectively reduce much of the unwanted sound from the pads by switching to mesh heads.

When you need to transport the unit, package it in the box (including padding) that it came in, if possible. Otherwise, you will need to use equivalent packaging materials. Use a cable from Roland to make the connection. If using some other make of connection cable, please note the following precautions. Some connection cables contain resistors.

Do not use cables that incorporate resistors for connecting to this unit. The use of such cables can cause the sound level to be extremely low, or impossible to hear. For information on cable specifications, contact the manufacturer of the cable. Before Using Cards Using DATA Cards q New M-512E DATA cards do not yet have their battery installed. Before a DATA card can be used, you first need to insert the battery (refer to the instructions supplied with the DATA card).

q M-512E DATA cards are equipped with a PROTECT switch, which when turned on protects your data from accidental erasure. It is recommended that the switch be kept at the ON position, and switched to OFF only at the times you wish to write new data onto the card. Memory Backup q This unit contains a battery which powers the unit's memory circuits while the main power is off. When this battery becomes weak, the message shown below will appear in the display. Once you see this message, have the battery replaced with a fresh one as soon as possible to avoid the loss of all data in memory. To have the battery replaced, consult with your dealer, or qualified Roland service personnel. "Backup Battery Low !" On Off Additional Precautions q Please be aware that the contents of memory can be irretrievably lost as a result of a malfunction, or the improper operation of the unit. To protect yourself against the risk of losing important data, we recommend that you periodically save a backup copy of important data you have stored in the unit's memory on a RAM card/DATA card, in another MIDI device (e.g., a sequencer).

q Unfortunately, it may be impossible to restore the contents of data that was stored on a RAM card/DATA card, in another MIDI device (e.g., a sequencer), in the unit's memory once it has been lost. Roland Corporation assumes no liability concerning such loss of data. q Use a reasonable amount of care when using the unit's q When the battery in an M-512E DATA card is nearly worn out, the message below will be shown in the display. Refer to the instructions supplied with the DATA card and promptly replace the battery to avoid the loss of the data on it. "MEMORY CARD Battery Low ! Please Change !" q Carefully insert the DATA card all the way in--until it is firmly in place. q Never touch the terminals of the DATA card. Also, avoid getting the terminals dirty.

17 About button operations and the screen displays Operations common to all aspects of operating the TD-10 are covered below.

s Saving your settings For operations within the TD-10, there is no procedure for "saving settings." When you modify the value of a setting, the new value is automatically saved as soon as you make the change. s Buttons, sliders and knobs Buttons, sliders and knobs on the front panel will be printed in square brackets []; e.g., [SETUP].

s Cursor fig.00-003e Cursor Cursor refers to the highlighted characters indicating an on-screen item that can be set. If the screen contains more than one item that can be set, use the [CURSOR] buttons to move it to the item that you wish to set. fig.00-003a s Function buttons ([F1][F4]) fig.

00-004 The [F1][F4] buttons are called the "function buttons." The bottom part of the display will show the names of the functions available for [F1][F4]. For example, if this owner's manual makes reference to [INST]-[F1] (SHELL), press [INST], and then press [F1] (in this case, "SHELL" is displayed above [F1]). 18 About button operations and the screen displays s How to modify settings fig.00-005e INC/DEC button VALUE dial [INC] and [DEC] (referred to in this manual as [INC/DEC]) and the VALUE dial are both used to modify the values of settings. The two methods have the following advantages.

[INC/DEC] · Each time [INC] is pressed, the value increases. Each time [DEC] is pressed, the value decreases. This is convenient for fine adjustments. · When making an on/off setting, [INC] will turn the setting on and [DEC] will turn it off.

· If you hold down [INC] and press [DEC], the value will increase rapidly. If you hold down [DEC] and press [INC] the value will decrease rapidly. VALUE dial Since the dial allows you to make major changes to the value at once, it's a convenient way to make broad adjustments to a parameter quickly. s About the upper right of the screen display fig.00-006e Trigger number Instrument name (or Trigger name) MIDI note number Rim Head In pages that allow you to make settings for each pad, you can strike the desired pad to see the setting page for that pad. At this time, the upper right of the display will show the number of the trigger jack to which the selected pad is connected, the instrument that it is using, and the MIDI note number.



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The first character ("H" or "R") indicates whether the head or the rim of the pad is selected. The numerals at the right are the MIDI note number. You will need to know the MIDI note number when using the TD-10 as a MIDI sound module. The "H" or "R" display will indicate whether the head or rim will sound when you press the Preview button.

In cases where settings for the head and rim can be edited separately, the following characters will also be displayed, letting you know the page in which you are. *fig.00-007* 19 About button operations and the screen displays *s* Selecting pads from the TD-10 front panel *fig.00-008* The trigger select buttons ([TRIG SELECT]) are used when you wish to select a sound for editing from the front panel of the TD-10, rather than by striking a pad as explained above. You can use these buttons to select a trigger number and edit the settings.

When you press the button marked "1," the next lower-numbered trigger will be selected. When you press the button marked "12," the next higher-numbered trigger will be selected. When using a PD-7, PD-9 or PD-120, the rim button ([RIM]) lets you specify whether you are making settings for the head or the rim. When the [RIM] indicator is lit, the rim is selected. By using these buttons in conjunction with the preview button, you can edit without pads connected to the TD-10.

* Depending on the instrument selection, there will be no distinction between head and rim in some cases. For details refer to p. 136. *s* About the Preset Drum Kits When the instrument is shipped from the factory, drum kits 150 are already pre-loaded. Even if you modify the settings of these drum kits, you can restore them to their factory settings at any time. These drum kits are referred to as the Preset Drum Kits. For details, refer to p. 137. *s* About the basic screen *fig.00-008ae* Screen name Effect on/off Drum kit name Settings for brushes This screen is the TD-10's basic screen, which will appear when you press [KIT].

In addition to the kit name, it displays the status of the memory card (p. 78), the effect on/off setting (p. 79), and whether or not the kit is for brushes (p. 79) etc. 20 Quick Start 21 Quick Start Before you begin playing This section explains the connections and settings that you must make before playing. The explanations here are given, assuming that the TD-10 has its factory settings. MEMO The TD-10 provides a function for restoring the factory settings. Refer to "Restoring the factory settings (INITIALIZE)" on p. 137. Mounting the TD-10 to the stand Attach the stand holder (included with the optional MDS-7U/10) to the TD-10.

fig.00-009e Wide Narrow Using the included screws, attach it so that the unit is oriented as shown in the above diagram. NOTE Use the included screws. Using other screws can cause damage. Next, attach the TD-10 to the drum stand (MDS-7U/10).

For details on assembling the drum stand and attaching the TD-10, refer to the owner's manual for the drum stand (MDS-7U/10). MEMO To attach the TD-10 to a cymbal stand (or the like), you may want to make use of the separately available APC-33 All Purpose Clamp. Make sure, though, that the cymbal stand you intend to use has pipes with a diameter of between 10.5 and 30 millimeters. 22 Before you begin playing NOTE *fig.*

00-010e To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections. Audio cable Power cord R L to AC power outlet Stereo headphones Audio set, etc. Connect the rear panel MASTER L(MONO) and R jacks to your audio system or amps. If you will be using headphones, connect them to the PHONES jack. NOTE Be sure that the TD-10's MASTER L and R jacks are connected respectively to the L and R of your audio system or amps. In consideration of live performance situations, the headphone output is designed to produce a higher volume than other electronic musical instruments. Extended listening at high volumes will damage your hearing, so please pay attention to the volume adjustment. At the factory settings, no sound will be output from the DIRECT 1, DIRECT 2 or DIRECT 3 jacks. MEMO 23 Quick Start Connect your audio system or amp Before you begin playing Connecting pads and pedals Using the cables provided, connect your pads, hi-hat control pedals and kick trigger units as shown in the above diagram. Special jacks are provided for the kick (KICK) and snare (SNARE), so make the correct connections to these jacks.

fig.00-011e TD-10 Rear panel Roland Roland 24 Before you begin playing *fig.00-012* OUTPUT + POLARITY - (Roland) PD-7, PD-9 MEMO To have the most expressive performance, we recommend the use of the Roland pads (PD-5, PD-7, PD-9, PD100, PD-120) and kick trigger units (KD-7). 25 Quick Start NOTE If you are using a PD-7 or PD-9, move the polarity switch located on the back of the pad to the "-(Roland)" position. When using a KD-7, either position will do. Before you begin playing Turning on the power NOTE *fig.00-013* Once the connections have been completed (p. 23, 24), turn on power to your various devices in the order specified. By turning on devices in the wrong order, you risk causing malfunction and/or damage to speakers and other devices. 1 3 6 5 1 2 3 Rotate [MASTER] and [PHONES] all the way to the left to turn down the volume.

Turn down the volume of the connected amp or audio system. Turn on the POWER switch located on the rear panel of the TD-10. NOTE Caution when turning on the power *q* After turning on the power, do not press the hi-hat control pedal (FD-7) until the drum kit name (see the following illustration) appears in the display. If the pedal was pressed while the power was being turned on, hi-hat open/close operations cannot be performed correctly. *q* After turning on the power, do not strike a pad until the drum kit name appears in the display.

Striking a pad while the power is being turned on will cause poor response when the pad is struck softly. *fig.00-037* 26 Before you begin playing 4 5 Raise the [GROUP FADERS] sliders to the maximum position, and adjust [MASTER] ([PHONES]) to the position shown in the diagram. *fig.00-014a* 6 While striking [PREVIEW] with your finger, adjust the volume of the connected amp or audio system.

If you are using headphones, gradually raise [PHONES] to adjust the volume. The TD-10 will produce sound. The volume will depend on the force with which you struck [PREVIEW]. If there is no sound when you strike [PREVIEW] ... Check the following points. · If you are using headphones, are they connected to the PHONES jack? · If you are using an external amp, is it connected to the MASTER jacks? Are the audio cables connected correctly to the input jacks of the external amp, etc.



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? · Could there be a problem with the cables connected to the external amp? · Are the input select settings of the external amp correct? · Are the [GROUP FADERS] sliders lowered? · Could the [PHONES] volume be too low? · Could the [MASTER] volume be too low? MEMO You can use [TRIG SELECT] to select and audition the instrument for each pad. s To turn the power off.

.. 1 2 3 Make sure that the TD-10 volume controls and the connected external devices are turned to the minimum position. Turn off the power of the external devices. Turn off the power of the TD-10. 27 Quick Start Turn on the power of the connected amp or audio system. Before you begin playing Listening to the internal demo playback fig.00-015 The TD-10 contains demo songs that demonstrate its sounds and expressive capabilities. The demo song is a "rainbow" of 4 short songs, arranged as a medley. It plays back in "loop" (repeating) mode, yet you can also listen, starting from any of 4 positions, accessed as follows: 2 3 1 5 4 1 2 3 4 5 Set each of the [GROUP FADERS] sliders [KICK][SNARE][HI-HAT][OTHERS][BACKING] to the same volume.

Hold down [SETUP] and press [CHAIN]. In this display, the cursor defaults to "Rock." Use [INC/DEC] or the VALUE dial to select the "section" number.

You can start listening from the beginning of any of the four sections. Press [PLAY].

You can listen to the medley and it will continue to loop. During playback, the [GROUP FADERS] function normally allowing you to mix the demo song as you wish. (for more info on the [GROUP FADERS], see page 37.) Press [STOP] to stop playback. Once you are through listening to the demos, press [EXIT] to return to the "DRUM KIT" page.

All rights reserved. Unauthorized use of this material for purposes other than private, personal enjoyment is a violation of applicable laws. No data for the music that is played will be output from MIDI OUT/THRU. Drum kit 3942 are used in the Demo Song. For details of the Demo Song, refer to page 179.

NOTE MEMO 28 Before you begin playing In order for the TD-10 to accurately receive trigger signals from each pad, you must specify the type of pad that is connected to each TRIGGER INPUT jack. s If you have purchased the "V-Basic Kit" or "V-Standard Kit" fig.00-016 Trigger settings for the V-Basic Kit or the V-Standard Kit are provided, so you can call up and select them. 1 2 3 1 2 3 Press [SETUP], press [F1 (TRIG)], and then press [F1 (BANK)]. Use [CURSOR] to move the cursor to the "BANK" number.

Use [INC/DEC] or the VALUE dial to make the setting. V-Basic Kit: BANK 1 V-Standard Kit: BANK 2 NOTE If the settings have been modified and are different than the settings in the above diagram, use the Copy function to restore the factory settings (p. 137). This completes settings for all pads of the V-Basic Kit or V-Standard Kit. If you are using a PD-100 or PD-120, make settings for the head tension as explained on p. 31. Once you have completed your settings, press [EXIT] enough times to get back to the "DRUM KIT" page. 29 Quick Start Specify the pads that the TD-10 will use Before you begin playing s

If you have purchased the PD-5, PD-7, PD-9, PD-100 or PD-120 individually Make the following settings for each pad. fig.00-023 1 2 4 1 fig. 00-017 Press [SETUP], press [F1 (TRIG)], and then press [F1 (BANK)]. The following screen will appear: This screen shows a list of pad models that are specified for each TRIGGER INPUT jack. Display Pad name PD5 PD-5 PD7 PD-7 PD9 PD-9 10A PD-100 12A PD-120 KD7 KD-7/KD-5 * For details on 10B and 12B, refer to p. 108. 2 3 4 30 Use [CURSOR] to move the cursor to a location other than "BANK."

" Strike the pad for which you wish to make settings. The cursor will move to the edited value of the pad that you struck. Use [INC/DEC] or the VALUE dial to select the model name of the pad. This completes pad settings. If you are using a PD-100 or PD-120, make settings for the head tension as explained in the following section.

Before you begin playing q Adjusting the head tension Quick Start For these pads, adjustments are required in order to regularize the tension of the head. Also, the tension of the head may change when the pad has been used for a long period. If this occurs, use the following procedure to make adjustments as necessary. fig.00-025 2 4 5 1 2 3 Make sure that the Trigger Type (pad model name) is set either to "10A" (PD-100) or to "12A" (PD120). Press [SETUP], then press [F1 (TRIG)], and then press [F4 (OPTION)]. Strike the PD-100 or PD-120 for which you wish to make settings. The setting page for the pad that you struck will appear. fig.00-026 4 5 Use [CURSOR] to move the cursor to "Head Tension Adjustment.

" Use [INC/DEC] or the VALUE dial to make the setting. With a setting of "Loose" it will be adjusted at a weaker tension, and with a setting of "Tight" it will be adjusted at a stronger tension. For now, set this to the medium value of "Normal." 31 Before you begin playing 6 On the head of the PD-100 or PD-120, accurately strike a location approximately 1 inch (3 cm) from the tuning bolt. fig.00-027e Strike here Tuning bolt 1 inch (3 cm) The indicator in the lower right of the display will indicate how far off the adjustment is. 7 Use a tuning key (optional) to turn the all tuning bolt so that the indicator reaches the position shown in the diagram. fig.00-027ae Indicator If the indicator is toward the right, turn the tuning key toward the left to loosen the tension. If the indicator is toward the left, turn the tuning key toward the right to tighten the tension.

NOTE If the indicator moves greatly to the left or right, adjust the tension of the entire head before making this setting. The head tension adjustment does not work correctly when the "SCAN TIME" (p. 111) setting is excessively low. The "SCAN TIME" setting is automatically set to the most efficient values for each pad when you select the "TRIGGER TYPE" (P.108).

If you have changed the "SCAN TIME" setting, select the "TRIGGER TYPE" again. MEMO For details on adjusting the head tension, refer to the PD-100/120 owner's manual. Once you have completed your settings, press [EXIT] enough times to get back to the "DRUM KIT" page. 32 Before you begin playing s Using triggers on an acoustic drum to play the TD-10 Set the trigger type to the drum trigger setting, and if notes are not sounded accurately, you'll need to make changes in the "advanced" mode of this section. For details, refer to "Detailed settings for the trigger parameters (ADVNCN)" (p. 111) in the "Advanced Use.



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" First refer to p. 142 and attach the drum trigger. When you have done so, make the following settings for each trigger. fig.00-023 1 2 4 1 Press [SETUP], then press [F1 (TRIG)], and then press [F1 (BANK)]. The following screen will appear: fig.00-017 This screen shows a list of the trigger types that are specified for each TRIGGER INPUT jack. 2 3 4 Use [CURSOR] to move the cursor to a location other than "BANK." Strike the drum (or press the kick pedal) for which you wish to make settings.

The cursor will move to the trigger number of the drum that you struck. Use [INC/DEC] or the VALUE dial to specify the trigger type. Make the following settings for each trigger. "KIK": Kick drum "SNR": Snare drum "TOM": Tom "FLR": Floor tom Once you have completed your settings, press [EXIT] enough times to get back to the "DRUM KIT" page. 33 Quick Start Before you begin playing Check the settings This completes the settings. Strike the pads/drums and verify that the appropriate instrument sounds correctly. If not, check the settings once again, and refer to "Troubleshooting connections and settings" on p. 45. 34 For a better performance Quick Start Concerning the performance & expressiveness of the pads This section introduces various performance functions that will help you perform more expressively on the pads. Some of these playing techniques and functions are unique to the TD-10, so please be sure to read this section in order take full advantage of the TD-10's capabilities.

s Rim shots By using the rim, you can play two types of sound from one pad. This can be done with a PD-7, PD9 and PD-120. fig.00-030e Pad Pad Rim of the pad Normal shot Rim shot To play a rim shot, you must strike both the head (center area) and the rim (outer edge) of the pad simultaneously. There will be no sound if you strike only the rim.

When you play a rim shot, the instrument assigned to the rim will sound. NOTE When specifying the rim during editing, you will also need to strike the head and rim simultaneously. Important: The rim function of the PD-120 ONLY works when connected to trigger input 2 (SNARE). If you desire rim sounds for the toms etc., please use a PD-7 or PD-9.

s Choking This function simulates the muting of a cymbal and can be done with a PD-7 or PD-9. fig.00-031 By striking a pad and then squeeze the rim portion of the pad while the note is still sounding, you can mute the sounding note; a performance technique known as choking. 35 For a better performance s Positional sensing This function simulates movement across the snare drum head or ride cymbal surface. A PD-7, PD9, PD-100 or PD-120 can be used when connected to trigger jacks number 2 or 10. fig.00-032e Tonal differences by strike location For the snare drum and ride cymbals, differences in striking position between the center of the head and the rim area will produce a natural change in tone. When the PD-120 is used as a snare, changes in tone and response will produce playability rivaling that of an acoustic drum. s Playing with brushes The TD-10 allows you to play using brushes when using a PD-100 or PD-120 only. You can use techniques such as swishing or sweeping to trigger that type of sound, as with an acoustic drum.

When using brushes, you must select a drum kit that is intended for brush playing. Press [KIT], and select a kit that has a symbol like the following at the lower right of the kit name. fig.00-033 NOTE ONLY use nylon/plastic brushes. Metal brushes will damage the head and/or could pierce the fine mesh of the head itself. MEMO Of the preset drum kits, numbers 7 and 37 are for brush playing. s Hi-hat control pedal A hi-hat control pedal can be used for the following performance techniques, giving you continuous control from open to closed positions. This can be done with an FD-7. fig.00-033a FD-7 Open hi-hat: Closed hi-hat: Pedalled closed: Pedalled open: Strike the pad without pressing the pedal.

Strike the pad while pressing the pedal. Step on the pedal to trigger the "foot close" hi-hat. Step on, and quickly release pedal to trigger the "foot open" hi-hat sound. 36 For a better performance This section explains basic operation of the TD-10. Please try out each of these procedures.

s Adjusting the volume Adjusting the volume balance For the kick drum, snare drum and hi-hat, use the [GROUP FADERS] sliders to adjust the volume. Tom and cymbal, etc. are all adjusted as a group by [OTHERS]. Volume adjustments for each pad of the kit are made by the Control Room settings (p. 90). fig.00-034 Adjusting the overall volume Use [VOLUME CONTROL] to adjust the volume of the TD-10's MASTER output jacks. Rotating it clockwise increases volume, and rotating it counterclockwise decreases volume. fig.00-035 [MASTER]: Adjusts the volume output from the MASTER OUT jacks. [PHONES]: Adjusts the volume output from the headphone jack. [MIX IN]: Adjusts the volume that is input from the MIX IN jack. The input from MIX IN is output from the MASTER jacks and the PHONES jack (alternatively, only from the PHONES jack). 37 Quick Start TD-10 operating procedure For a better performance s Selecting a drum kit fig.00-036 2 1 1 Press [KIT].

The following screen will appear: fig.00-037 Each drum kit of the TD-10 is a collection of settings for the instrument assigned to each pad, settings for the room and microphones, mixer, effects and other parameters. 2 fig.00-038 Use [INC/DEC] or the VALUE dial to select a kit. MEMO The List display makes it easier to select a drum kit. In the above display, press [F1 (LIST)], and ten kit names will appear in one screen, allowing you to select the desired kit. Press [F1 (PAGE <)] to move to the previous page, or [F2 (PAGE >)] to move to the next page. In this display, you can select kits using [INC/DEC], the VALUE dial, or [CURSOR]. Press [EXIT] to return to the display page of step 1. 38 For a better performance s Adjusting the sensitivity of a pad You may wish to adjust the sensitivity of the pads to accommodate your personal taste.

In this section we will explain the easiest way to adjust the TD-10's sensitivity in order to get the best correlation between your playing velocity (strength) and the response and volume of the sound. fig.00-047 1 2 4 1 Press [SETUP], then press [F1 (TRIG)], and then press [F2 (BASIC)]. The following screen will appear: Trigger indicator 2 3 4 Use [CURSOR] to move the cursor to "Sensitivity." Strike a pad to select the one needing sensitivity adjustment. Use [INC/DEC] or the VALUE dial to adjust the sensitivity. The numeric value at the cursor will change (within the range from 1 to 16). Lower sensitivity (lower values) will mean that stronger strikes will not increase the volume very much.



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Conversely, higher sensitivity will mean that loud volumes will be reached quickly as you play more strongly. In general, it is best to set the sensitivity so that the indicator reaches the maximum position when you play with your maximum dynamics.

Overall volume is an important element in adjusting the sensitivity of an electronic drum kit. In particular, if you are listening at a low volume you may feel that there is too little change in volume, so you might raise the sensitivity excessively without really needing to. Try playing at different volume levels (through amps or headphones) in order to fine tune the sensitivity. In order to make settings correctly, adjust the volume to an appropriate level. NOTE 39 Quick Start

For a better performance s Master equalizer This is the master equalizer that is applied to the sound output from the MASTER OUT jacks. It adjusts the balance of the low, mid, and high frequency ranges. Let's try adjusting the GAIN (the amount of boost). fig.00-043 2 3 1 1 Press [KIT], and then press [F4 (MAS EQ)]. The following screen will appear: fig.

00-044 2 Use [F2][F4] or [CURSOR] to select the "GAIN" column. [F2]: Low range (LOW) [F3]: Middle range (MID) [F4]: High range (HIGH) [F1] functions as an equalizer on/off switch. MEMO 3 40 Use the VALUE dial to modify the value, and hear how the sound changes. Press [EXIT] to return to the

"DRUM KIT" display page. For a better performance s Effect on/off If you wish to compare your sounds "with" or "without" ambiance, individual compressors & equalizers, or digital effects, here they can each be turned on/off for the entire kit. fig.00-040 1 1 Press [KIT], and then press [F3 (FX SW)].

The following screen will appear: fig.00-041 In this page, [F1][F4] act as on/off switches. For example, pressing [F1] will turn ambiance on/off. AMBNCE (Ambience): The size of the room and the type of walls can be adjusted to modify the sound. COMP (Compressor): This is used to smooth volume peaks, preventing overload. EQ (Equalizer): This adjusts the balance of the high, mid and low ranges. EFFECT (Effect): This adds effects such as reverb or delay. NOTE When these switches are turned off, effects will not apply, regardless of any other settings.

Before using ambiance or effects, make sure that these switches are turned on. MEMO These settings can be made for each drum kit. Press [EXIT] to return to the "DRUM KIT" display page. 41 Quick Start For a better performance s Help function You can select a keyword for a specific operation and instantly view an explanation or the relative setting page. For example if you wish to make settings for a function using a foot switch, select the "FOOT SWITCH" keyword and press the button to access the appropriate setting page.

fig.00-045a 1 3,4 2 1 Press [TOOLS], and then press [F4 (HELP)]. The following screen (keyword list) will appear: fig.00-046 2 3 4 Use [INC/DEC] or the VALUE dial to select a keyword. Press [F4 (SELECT)], and an explanation of the function will appear. If you wish to go to the setting page for that function, press [F4 (GO NOW)]. Once you have completed your settings, press [EXIT] enough times to get back to the "DRUM KIT" page. 42 For a better

performance Expansion boards (optional) are cards that allow you to upgrade the system and add new instruments and drum kits. * Sound expansion boards for the Roland JV/XP series cannot be used. The bottom panel of the TD-10 has a slot that allows expansion boards to be installed.

Install only the specified circuit board(s) (WAVE & SYSTEM EXPANSION BOARD TDW series). 1. Always turn the TD-10 off and unplug the power cord before attempting installation of the circuit board (WAVE & SYSTEM EXPANSION BOARD TDW series). LOCK 5. Use the Installation Tool supplied with the Expansion board to turn the holders in the LOCK direction, so the board will be fastened in place. fig.00-049c 2. Remove only the four screws as indicated below, and open the cover located on the bottom of the TD-10. fig.00-049ae Removal screws * When Expansion Board installation is complete, double-check your work.

(To remove the Expansion board, turn the board holders in the UNLOCK direction, and lift up the board using the provided tool. Remove the board and secure the cover plate.) 6. Secure the cover plate using the four screws removed in step 2. 3.

Check that the plastic board holders are positioned as shown figure. Rotate them if necessary. fig.00-049be Expansion board Connector Board holder q Immediately turn the power off, and request servicing by your dealer or qualified Roland service personnel when: · Objects (such as screws) have fallen into, or liquid has been spilled on to the TD-10; or · The TD-10 has been exposed to rain (or otherwise has become wet); or · The TD-10 does not appear to operate normally or exhibits a marked change in performance. Never open the bottom cover of the TD-10 by yourself.

4. While positioning the holes on the board over the board holders, carefully insert the connector on the board into the socket on the TD-10. Make sure the connector is securely connected, and that all three board holders project through the holes. * Do not touch any of the printed circuit pathways or connection terminals. * Never use excessive force when installing a Expansion Board. If it doesn't fit properly on the first attempt, remove the board and try again. q To avoid the risk of damage to internal components that can be caused by static electricity, please carefully observe the following whenever you handle the board. · Before you touch the board, always first grasp a metal object (such as a water pipe), so you are sure that any static electricity you might have been carrying has been discharged. · When handling the board, grasp it only by its edges. Avoid touching any of the electronic components or connectors.

43 Quick Start About expansion boards For a better performance À propos des cartes d'extension (French language for Canadian Safety Standard) Les cartes d'extension (optionnelles) sont des cartes qui vous permettent d'augmenter la puissance de votre système et d'ajouter de nouveaux instruments ainsi que des batteries. * Les cartes d'extension de son pour les séries JV/XP de Roland ne peuvent être utilisées. N'installez que la ou les carte(s) de circuits imprimés spécifiée(s). (WAVE & SYSTEM EXPANSION BOARD série TDW) Le panneau du dessous du TD-10 a un créneau permettant l'installation des cartes d'extension. 1. Éteignez toujours le TD-10 et débranchez le câble électrique avant toute tentative d'installation de carte de circuits imprimés (WAVE & SYSTEM EXPANSION BOARD série TDW).



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